

FIG. 1

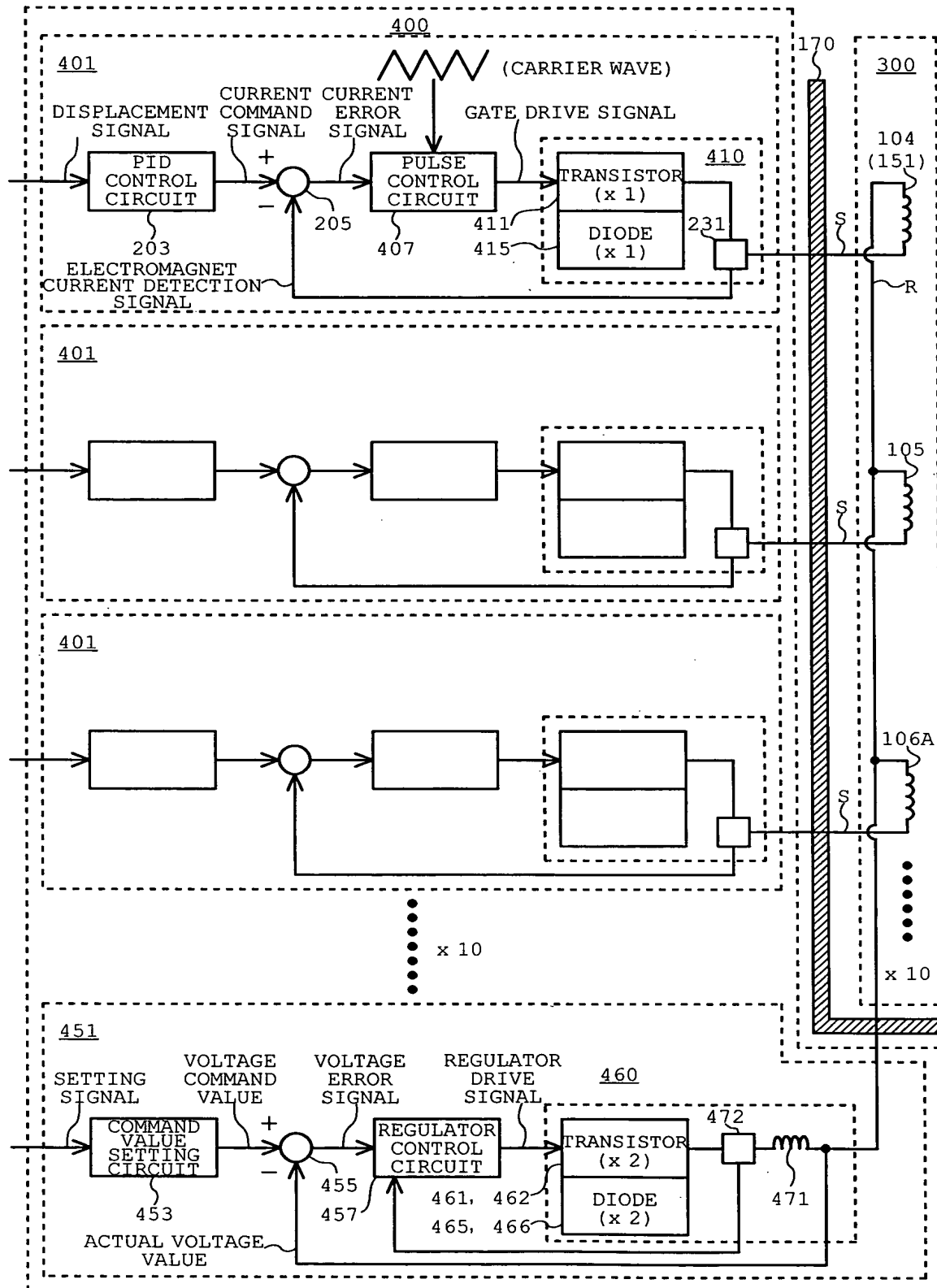


FIG. 2

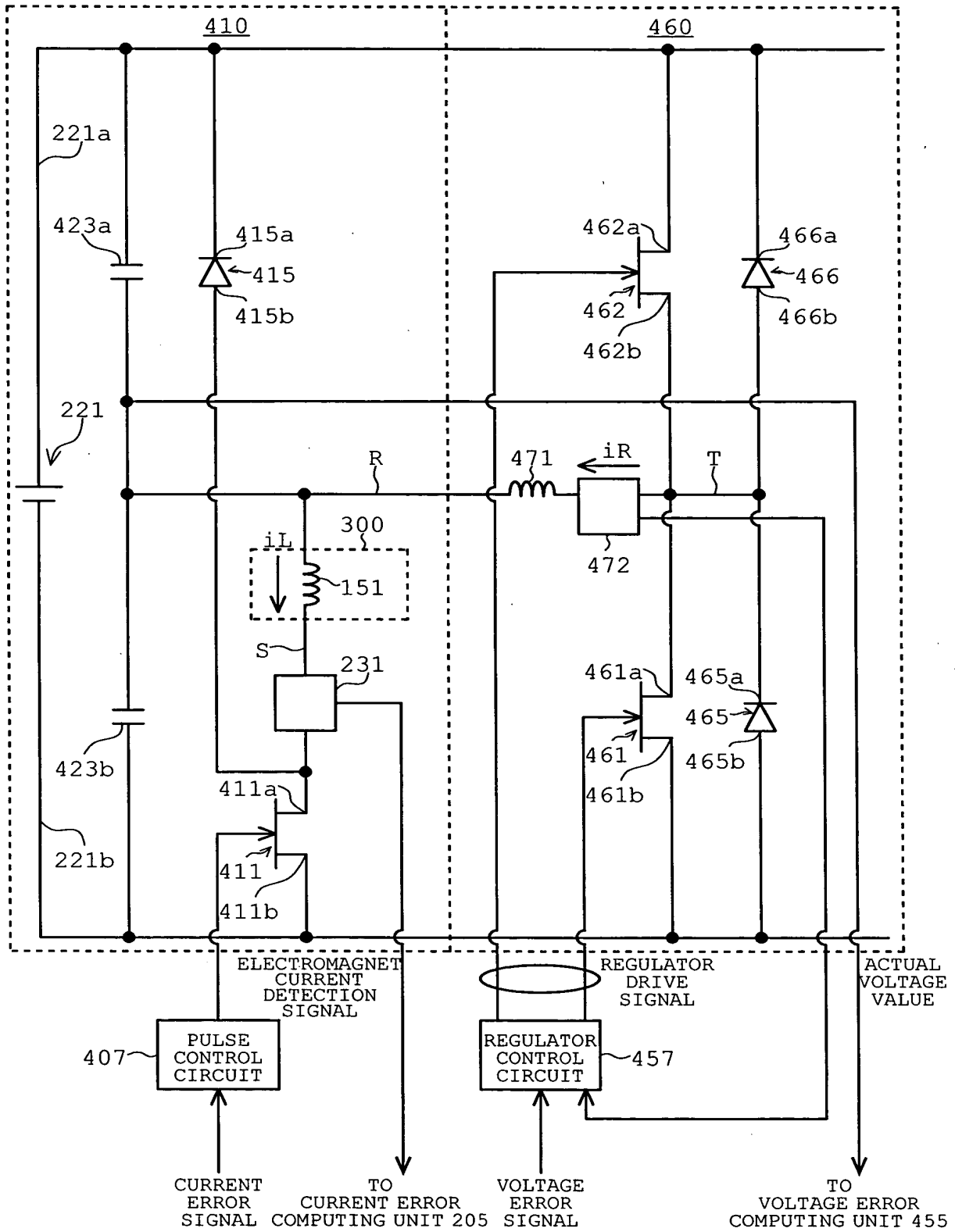


FIG. 3

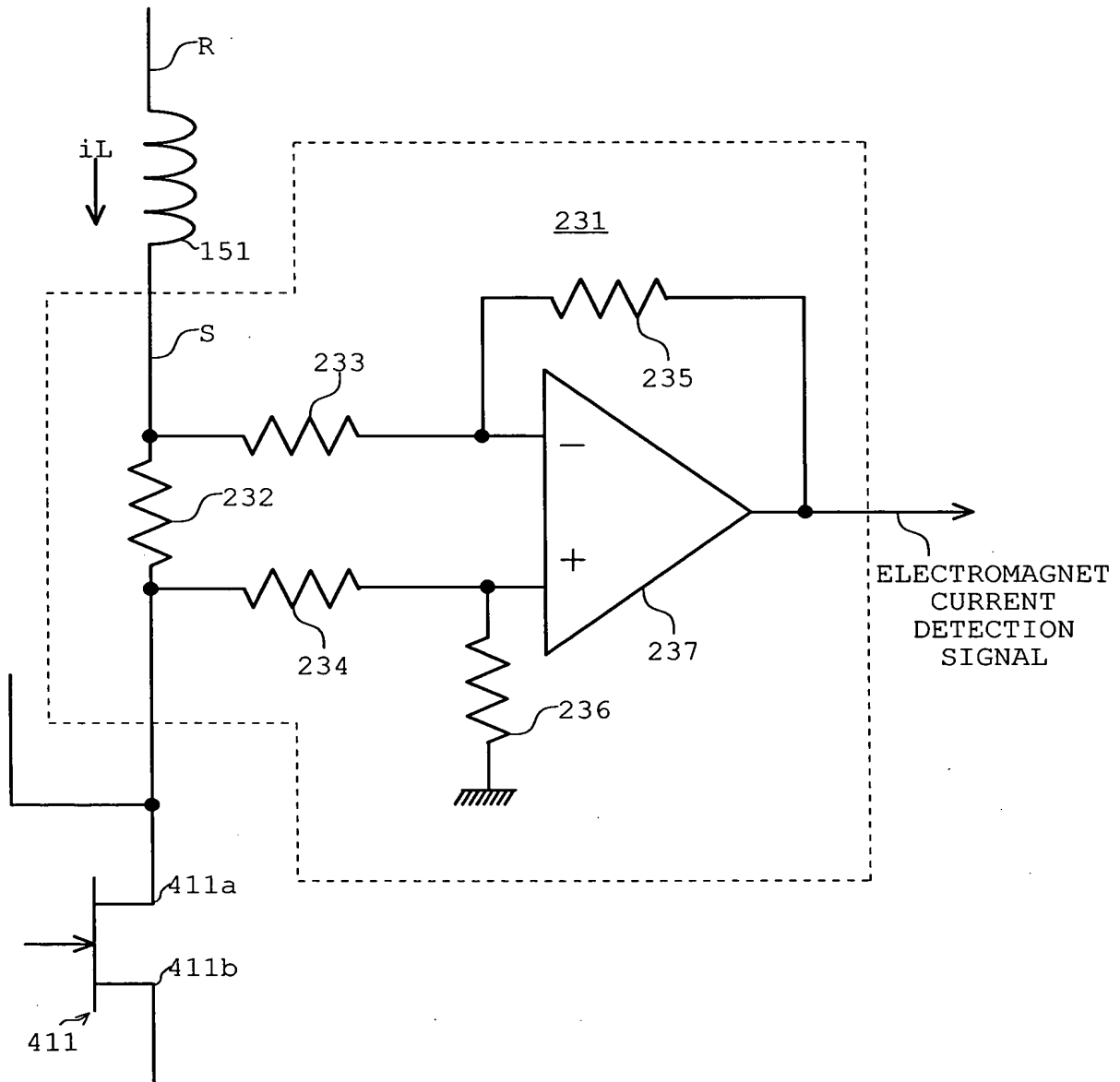


FIG. 4

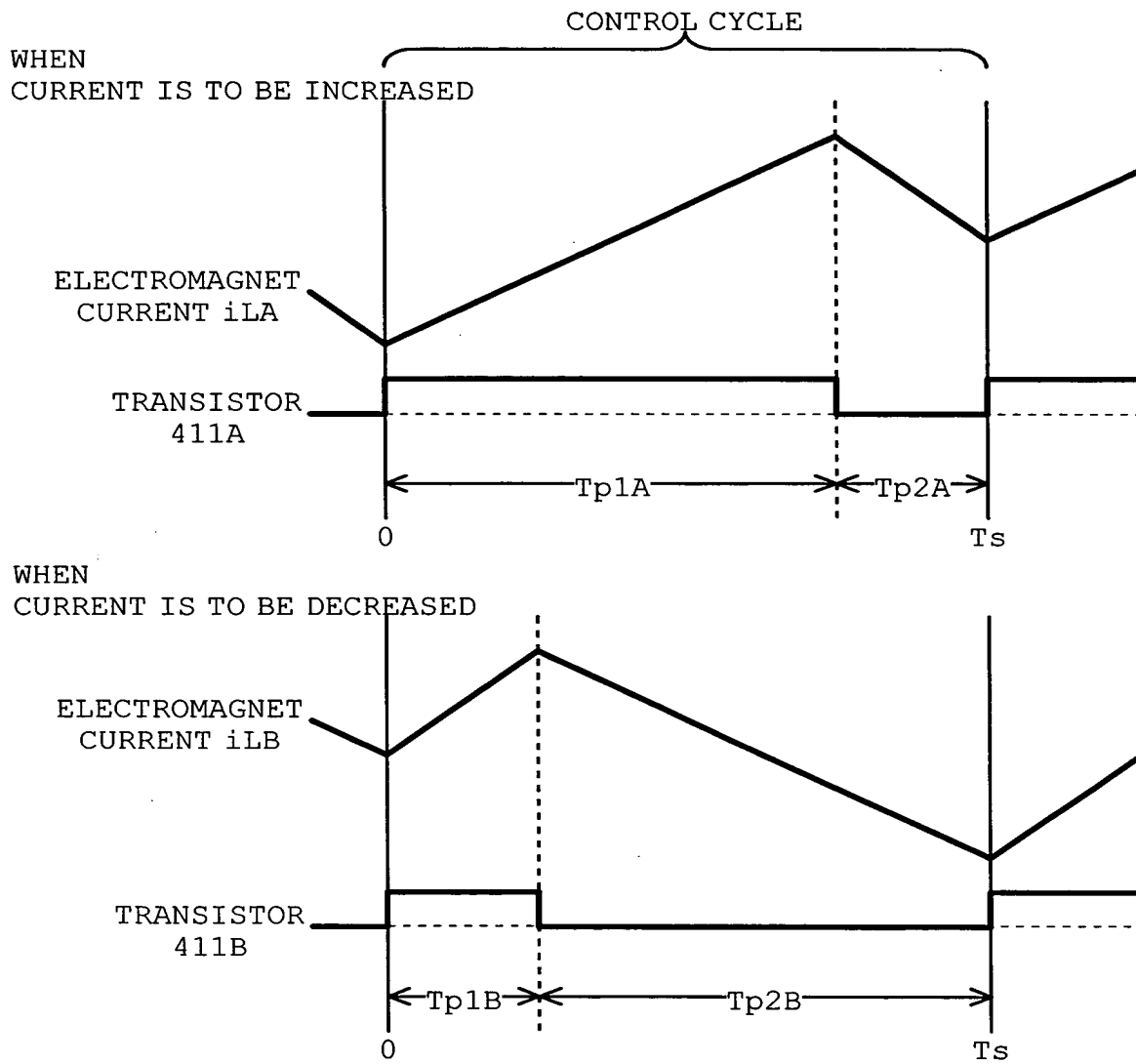
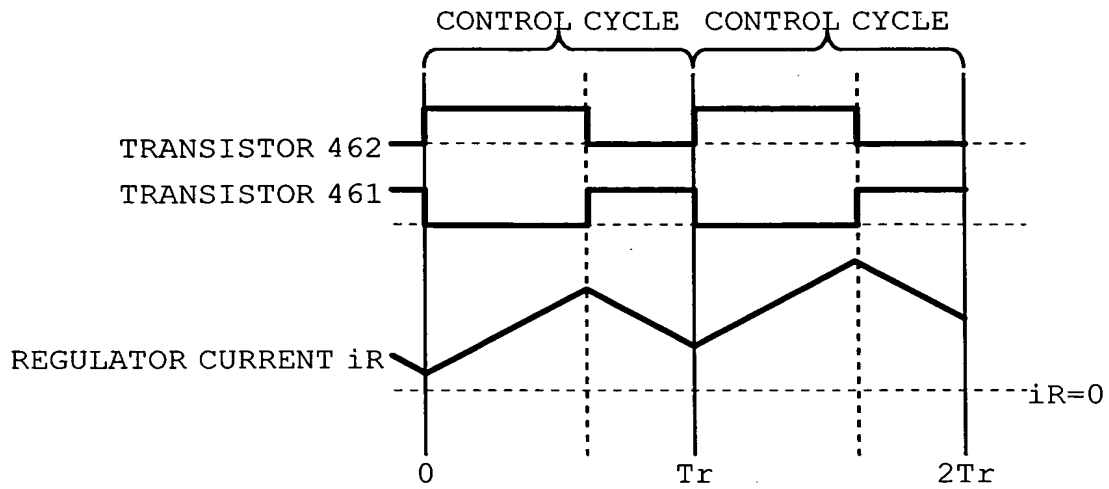


FIG. 5

WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS CONSIDERABLY
 LOWER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR LARGE



WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS SLIGHTLY
 LOWER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR SMALL

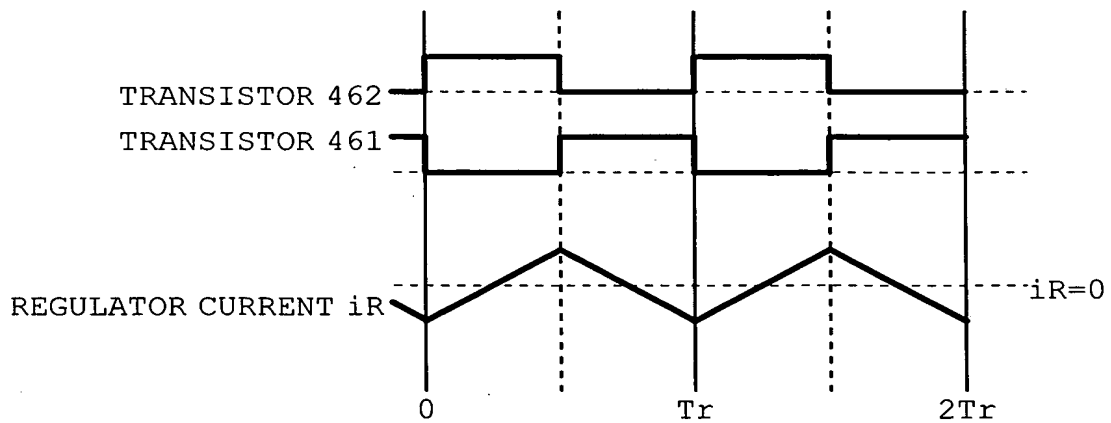


FIG. 6

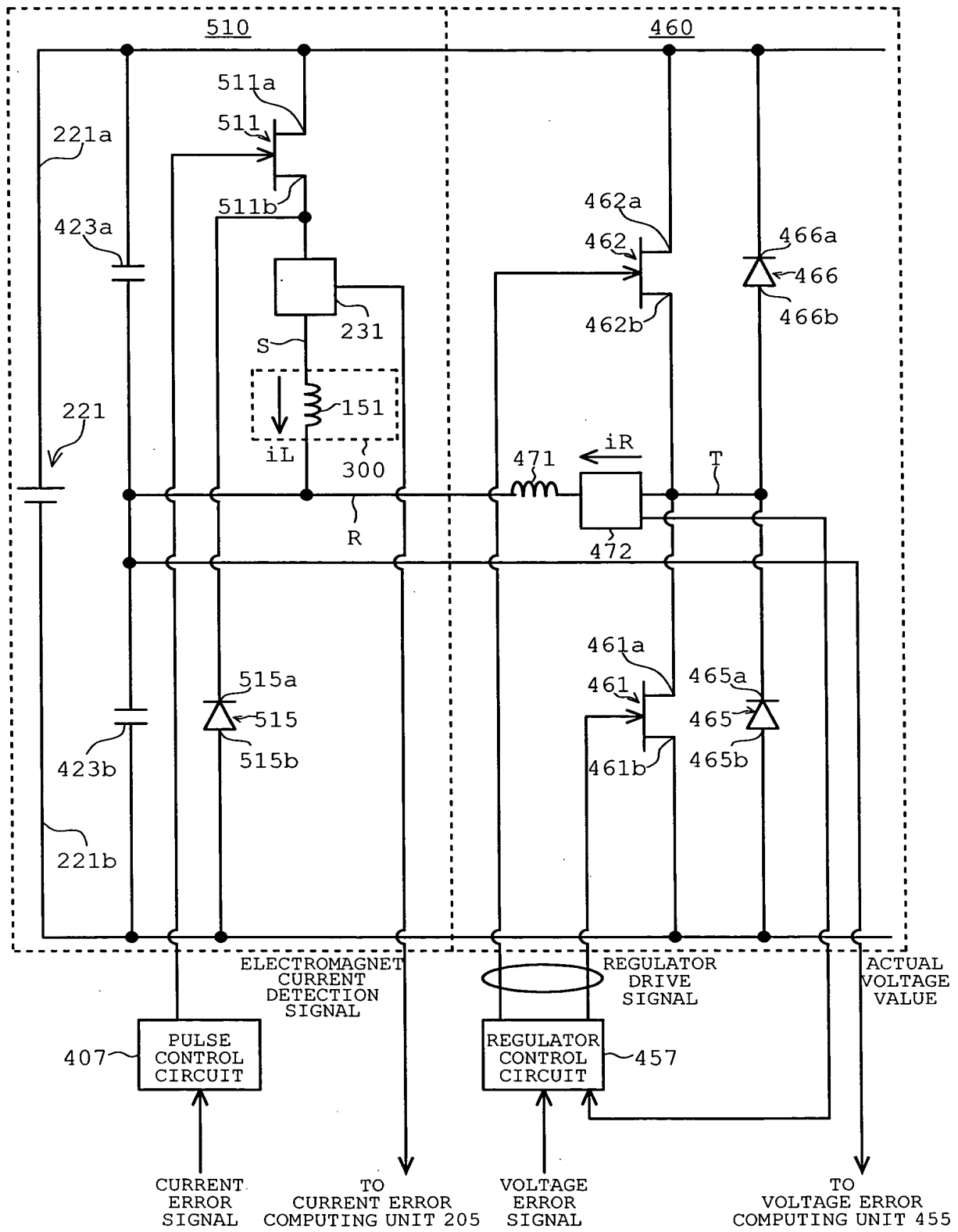
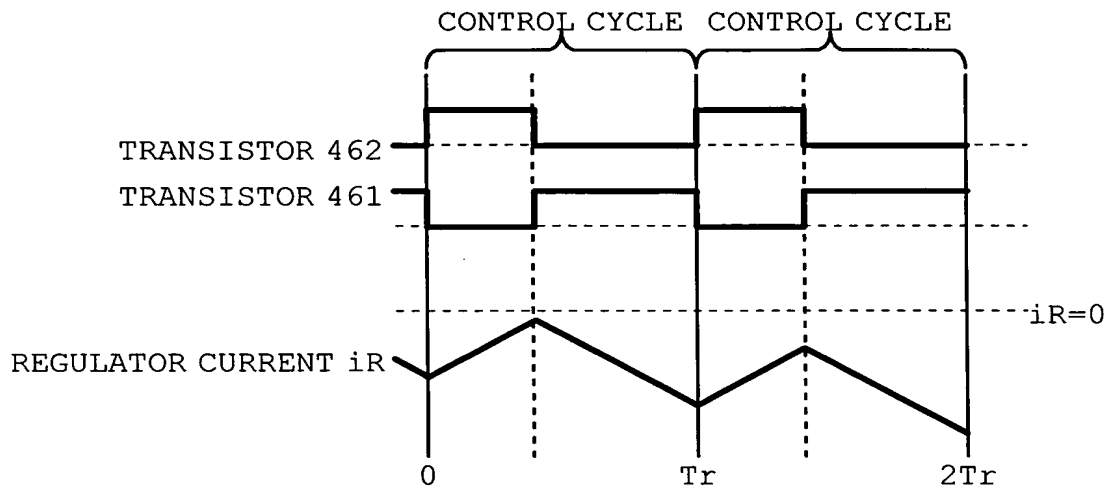


FIG. 7

WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS CONSIDERABLY
 HIGHER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR LARGE



WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS SLIGHTLY
 HIGHER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR SMALL

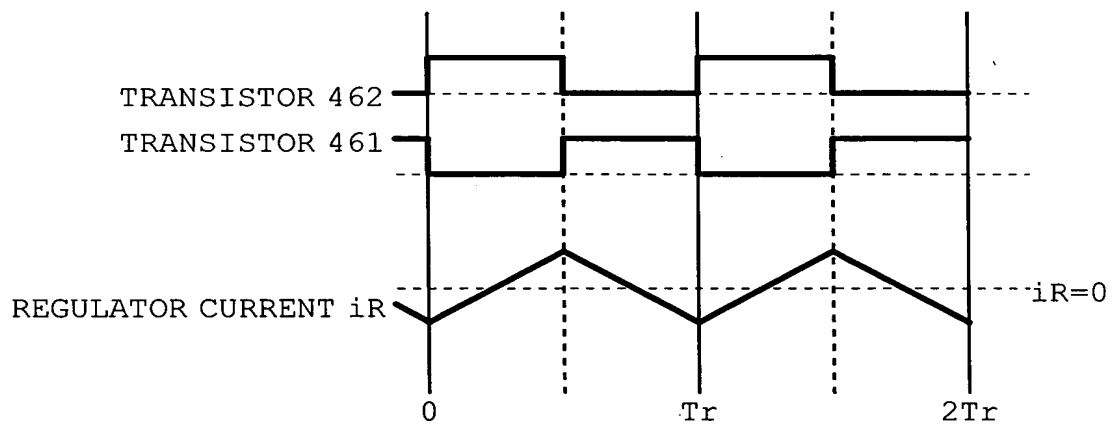


FIG. 8

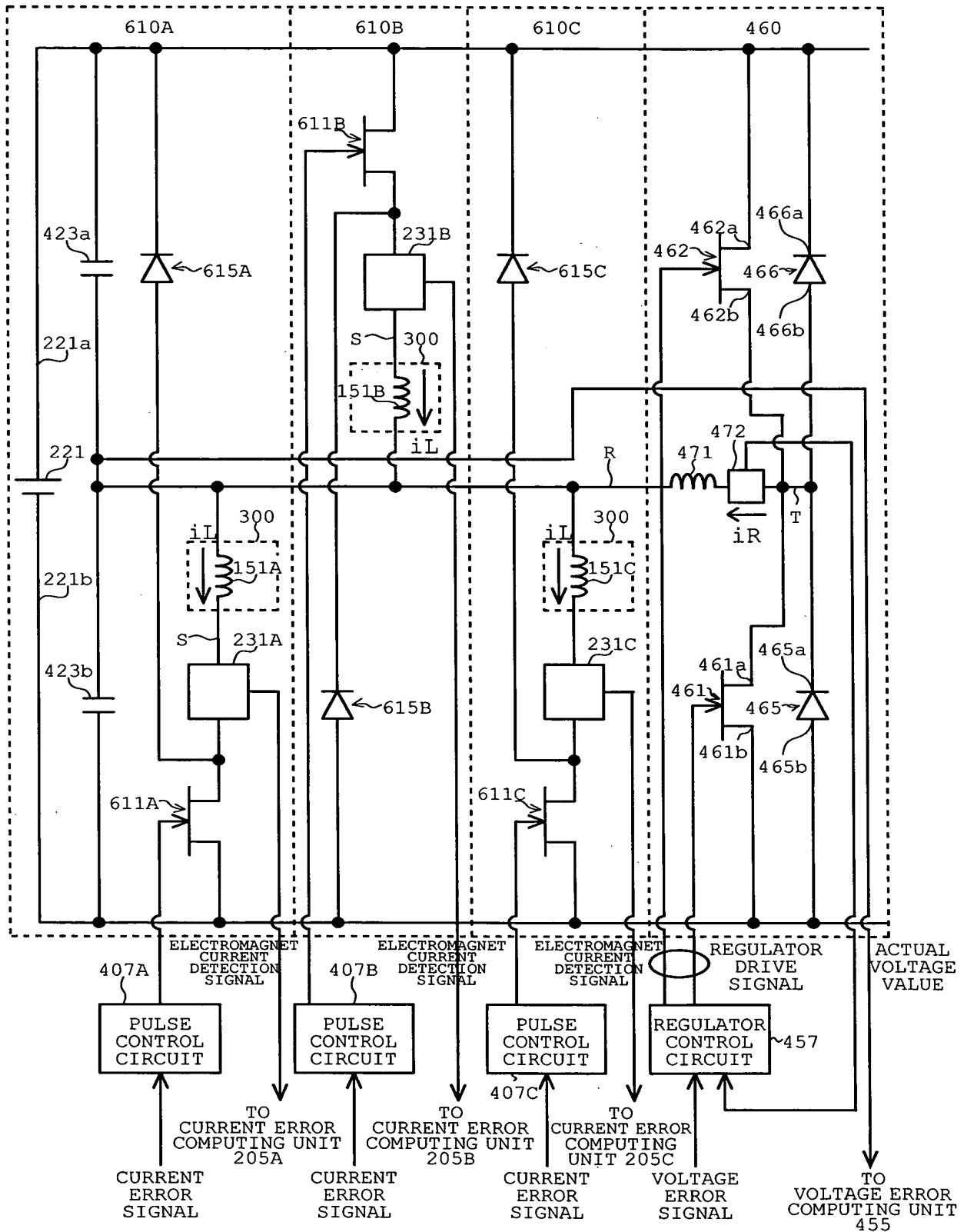


FIG. 9

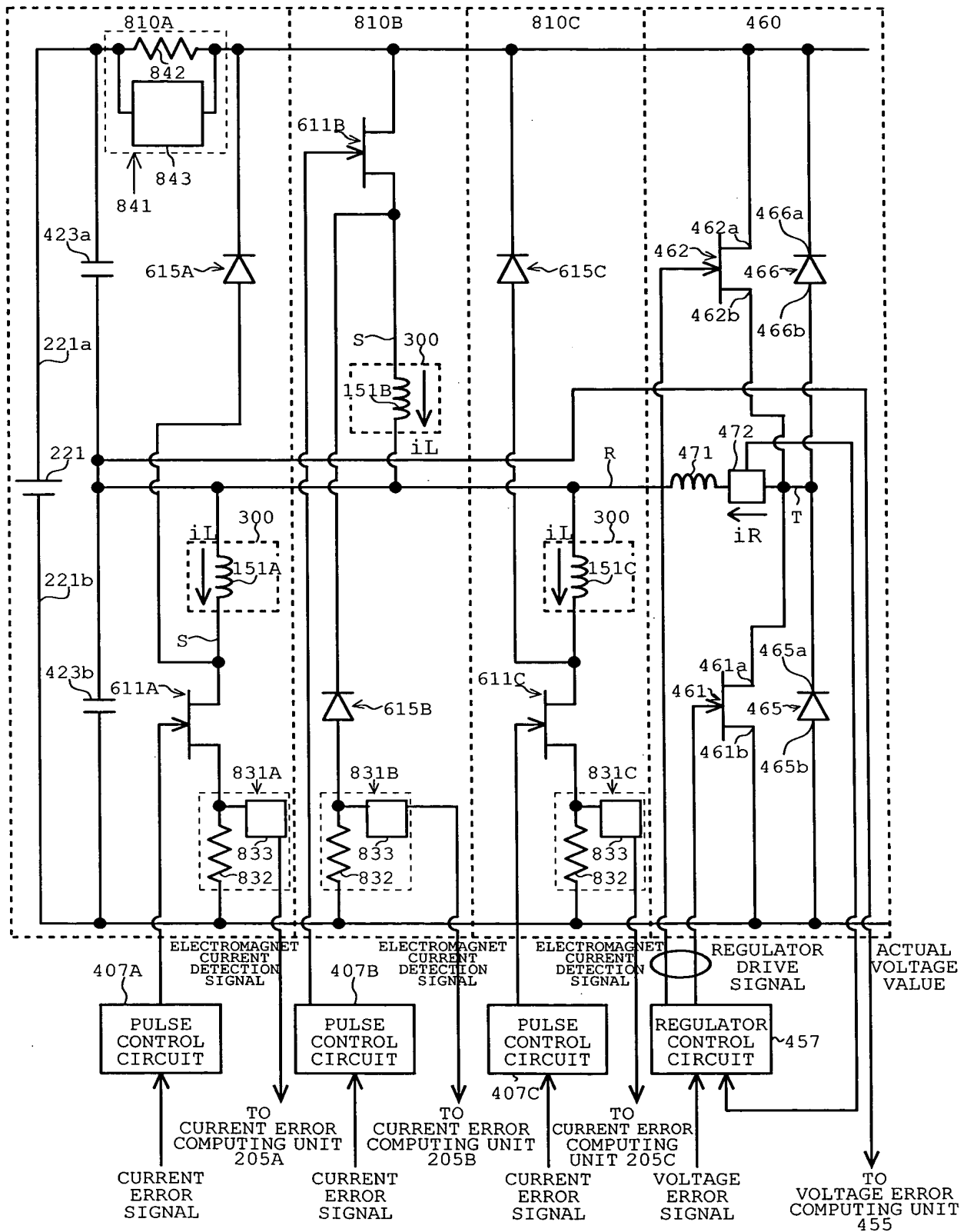


FIG. 10

AMPLIFIER CIRCUIT STRUCTURE	ELECTROMAGNET CURRENT i_L WHEN TRANSISTOR IS TURNED ON	ELECTROMAGNET CURRENT i_L WHEN TRANSISTOR IS TURNED OFF	CURRENT DETECTION TIMING
AMPLIFIER CIRCUIT 810A AMPLIFIER CIRCUIT 810C	FROM COMMON NODE TO NEGATIVE ELECTRODE	FROM COMMON NODE TO POSITIVE ELECTRODE	UPON TURNING TRANSISTOR ON
AMPLIFIER CIRCUIT 810B	FROM POSITIVE ELECTRODE TO COMMON NODE	FROM NEGATIVE ELECTRODE TO COMMON NODE	UPON TURNING TRANSISTOR OFF

FIG. 11

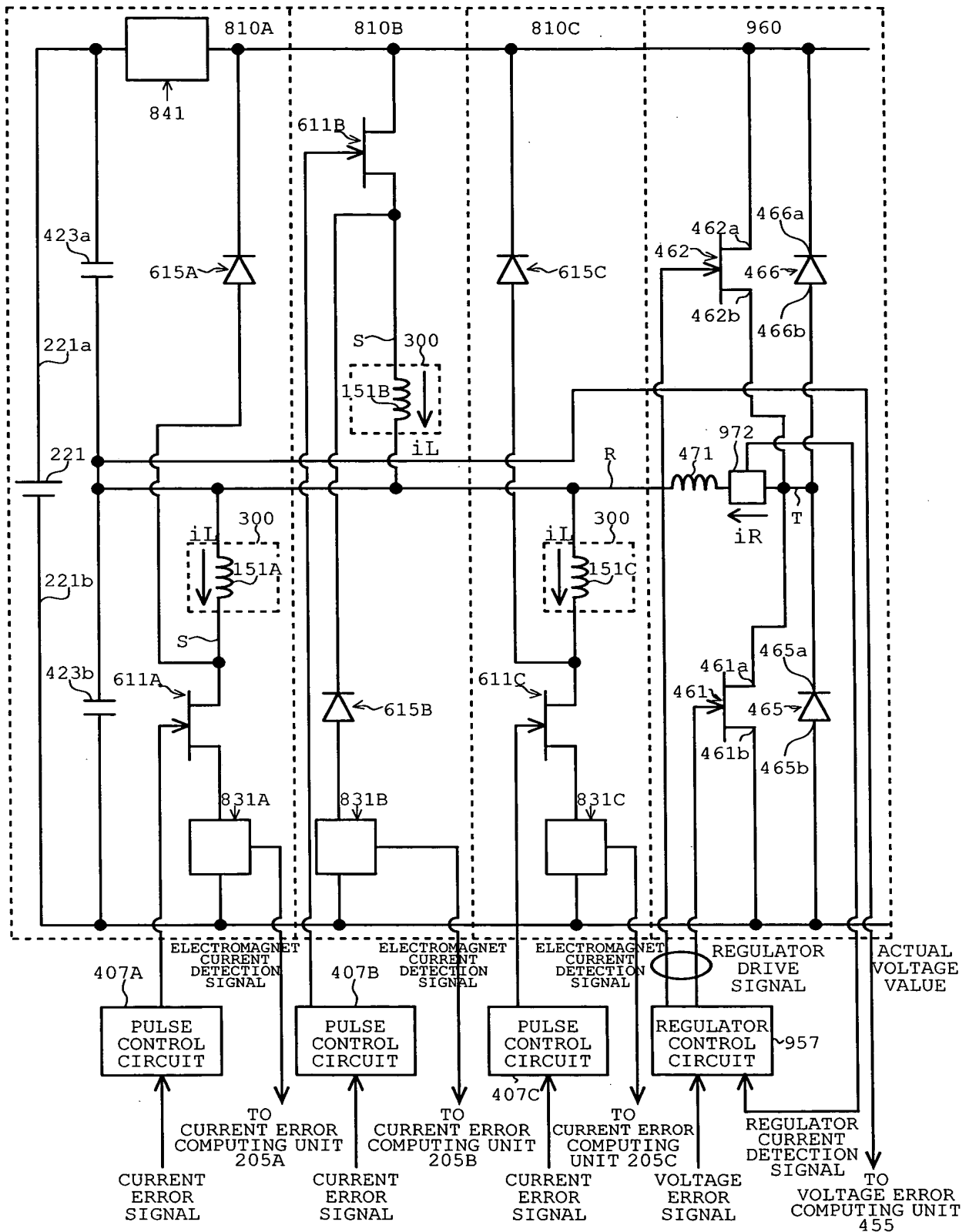
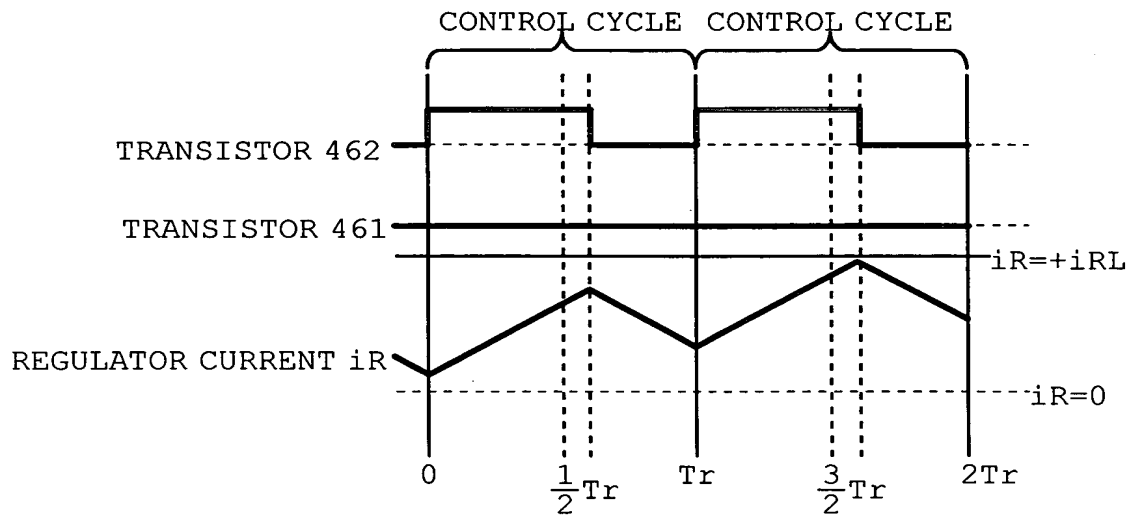


FIG. 12

WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS CONSIDERABLY
 LOWER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR LARGE



WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS SLIGHTLY
 LOWER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR SMALL

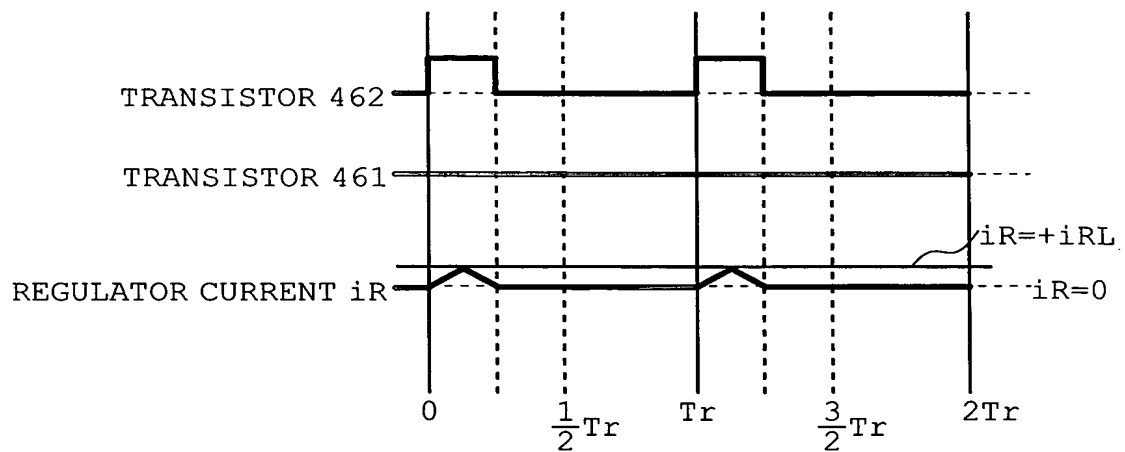
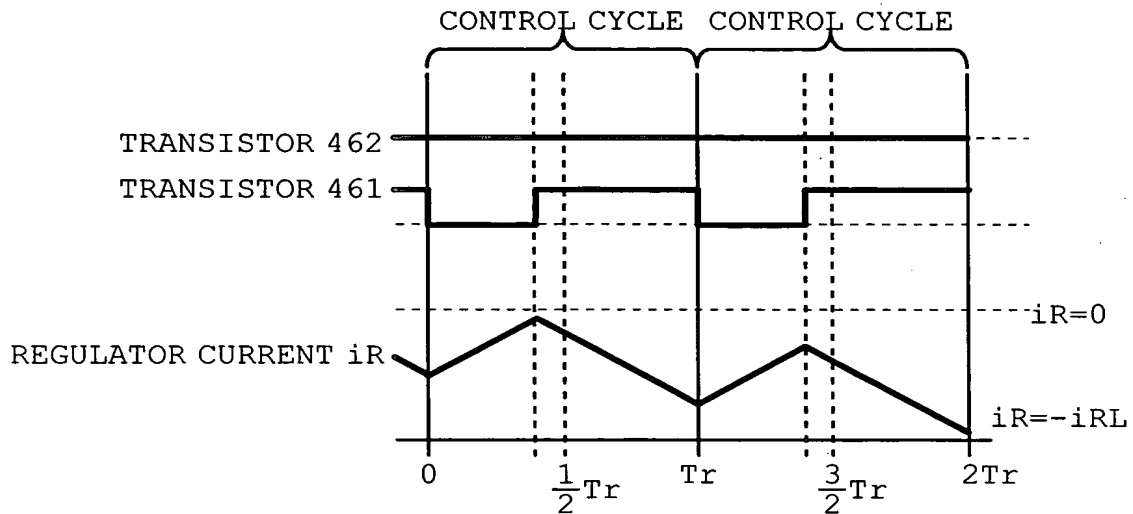


FIG. 13

WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS CONSIDERABLY
 HIGHER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR LARGE



WHEN
 ACTUAL VOLTAGE VALUE OF COMMON NODE R IS SLIGHTLY
 HIGHER THAN VOLTAGE COMMAND VALUE MAKING THE VOLTAGE ERROR SMALL

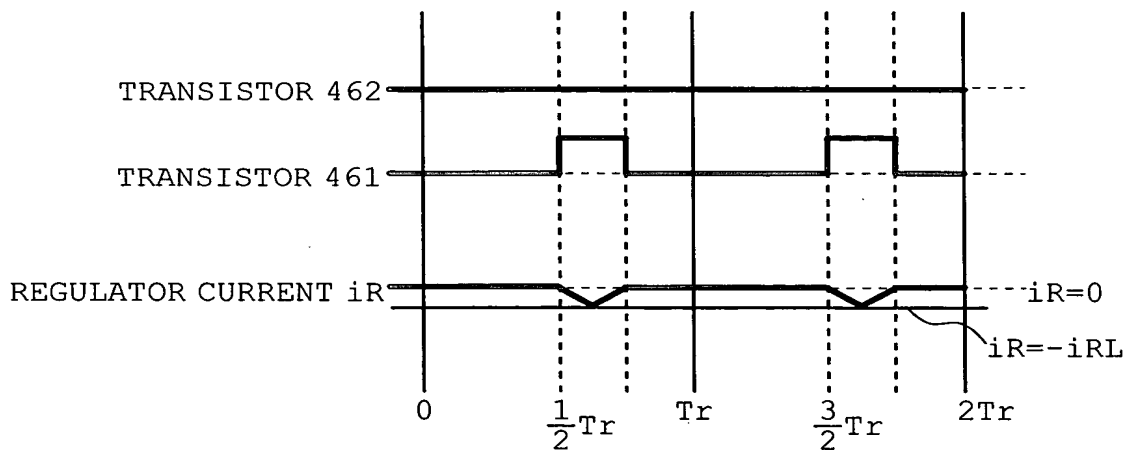


FIG. 14

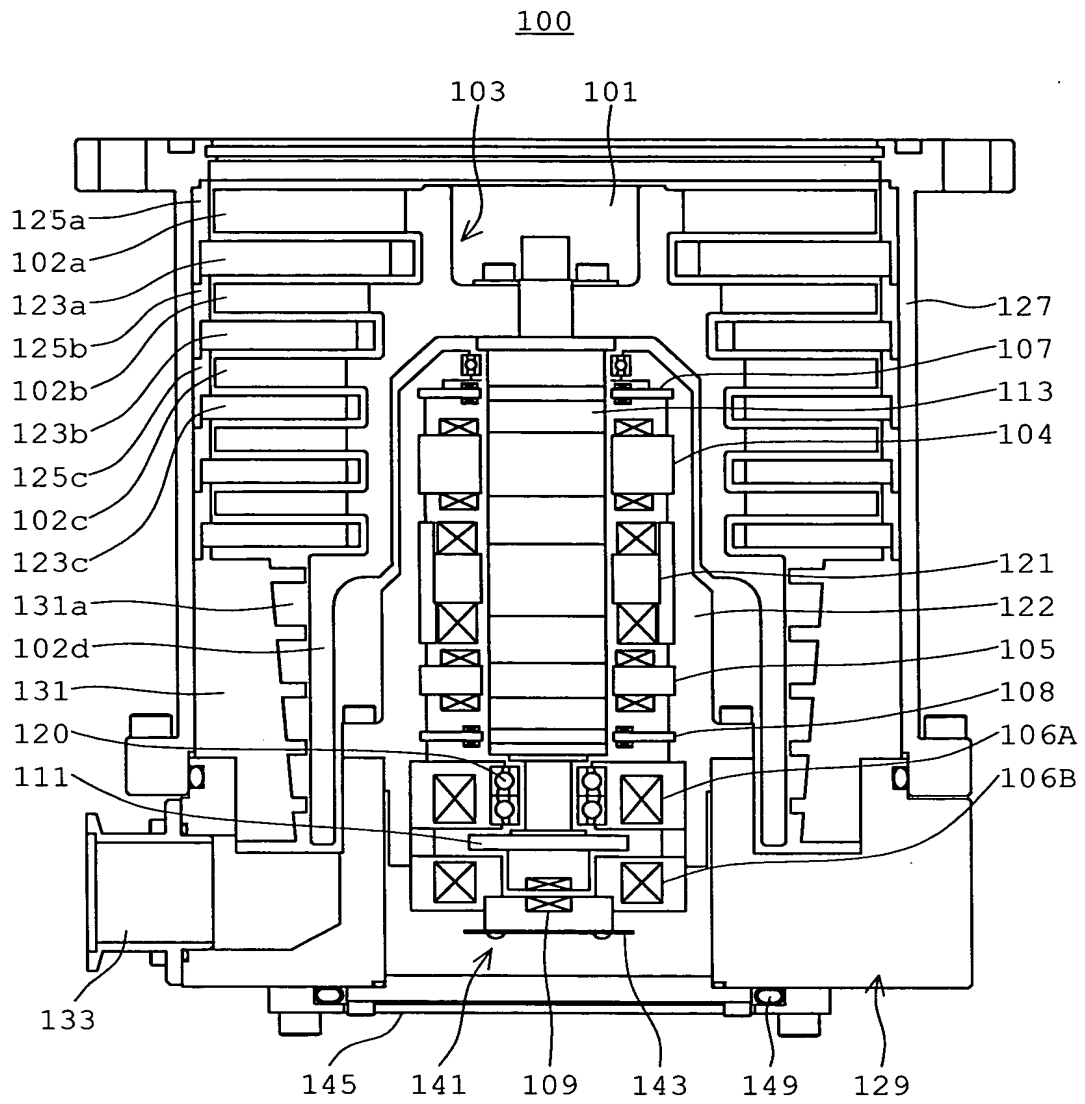


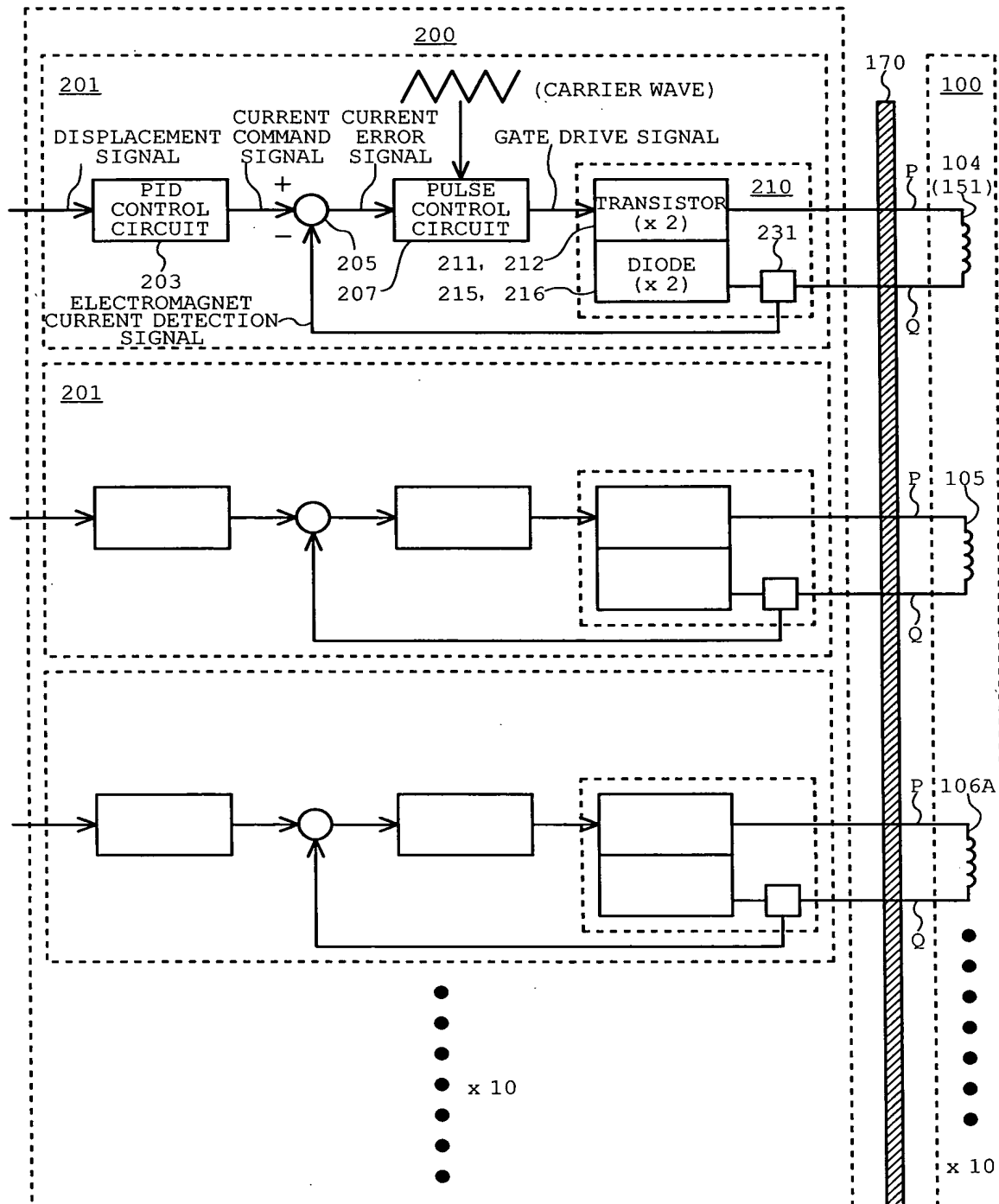
FIG. 15
PRIOR ART

FIG. 16
PRIOR ART

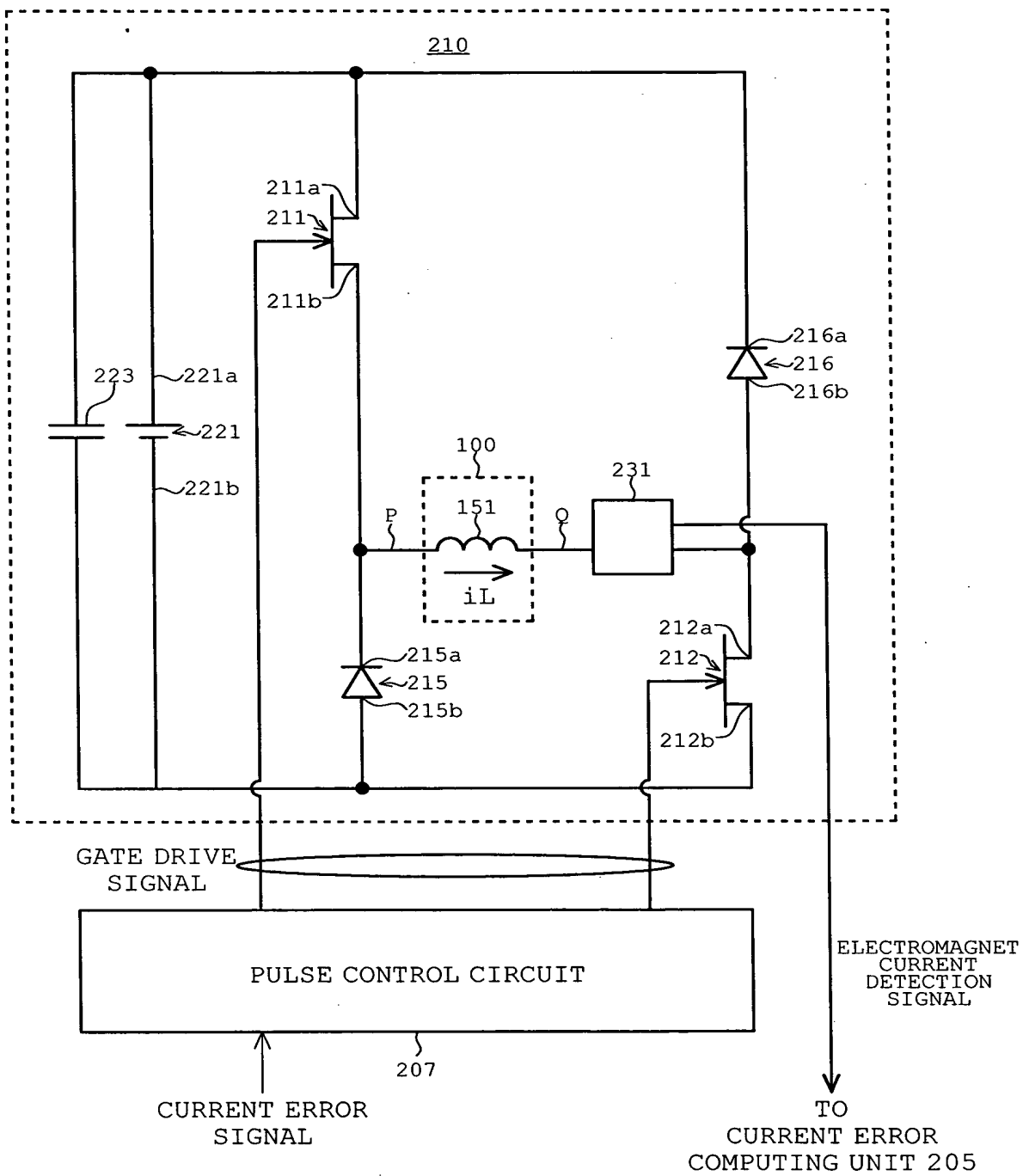


FIG. 17
PRIOR ART